Defining A Bundle

This section describes how to create and maintain a Bundle.

It covers the following topics:

- What is a Bundle Definition?
- Listing Bundle Definitions
- Adding a Bundle Definition
- Defining Print Parameters for a Bundle
- Defining a Print Schedule for a Bundle
- Defining the Retention Period for a Bundle
- Defining Bundle Contents
- Selecting Bundle Definitions with Selection Criteria
- Other Bundle Maintenance Functions

What is a Bundle Definition?

A Bundle is a group of Reports collected from different jobs or SYSOUT data sets. A Bundle is printed and distributed as a unit.
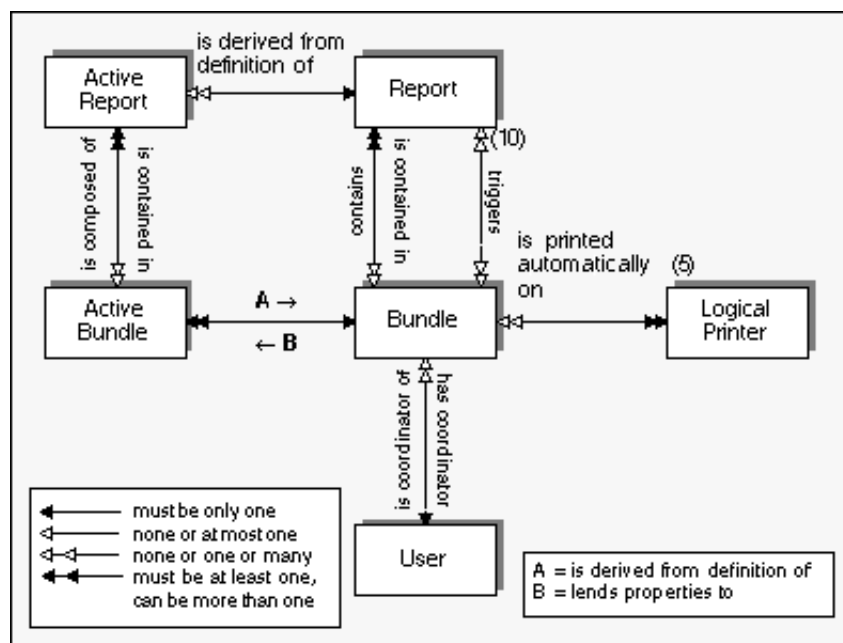The Reports in a Bundle can be browsed with the Software AG Editor.

Defining a Bundle involves:

- Creating the Bundle
- Defining Print Parameters
- Defining the Retention Period
- Defining the Reports in the Bundle and the Reports that trigger printing
- Authorizing User Access to the Bundle
- Modifying all Parameters

In addition, a Bundle can be copied, deleted, and renamed. Bundle parameters and log information can be displayed. All defined Bundles and the Reports in each Bundle can be listed.

Object relationship diagram

Listing Bundle Definitions

Bundle Maintenance Screen

▶ **To list all Bundle definitions**

● Enter **2** in the command line of the Main Menu and press Enter.

If long report and bundle names are displayed by the system (see settings in System Defaults and Adding a User Profile), the Bundle Maintenance screen will take the following form:

```
  17:08:18              **** ENTIRE OUTPUT MANAGEMENT ****         2000-11-15
 User ID GHH                   - Bundle Maintenance -
                                          Report _____
 Cmd Bundle                    Authoriz Description                      NumRep

 ___ _____  _____ _____  _____
 __  DEP-ADMA                  ADMIN    Created by PWR-EMPL-STD1-S             6
 __  DEP-COMP                  ADMIN    Created by PWR-EMPL-STD1-S            23
 __  DEP-DEPT                  ADMIN    Created by DB-POWER-BIG1-S            21
 __  DEP-FINA                  ADMIN    Created by PWR-EMPL-STD1-S            11
 __  DEP-HUGO                  ADMIN    Created by PWR-EMPL-STD1-S
 __  DEP-MARK                  ADMIN    Created by PWR-EMPL-STD1-S            11
 __  DEP-MASK                  ADMIN    Created by PWR-EMPL-STD1-S             5
 __  DEP-MGMT                  ADMIN    Created by PWR-EMPL-STD1-S            26
 __  DEP-PROD                  ADMIN    Created by PWR-EMPL-STD1-S            10
 __  DEP-SALE                  ADMIN    Created by PWR-EMPL-STD1-S            19
 __  DEP-SALG                  ADMIN    Created by PWR-EMPL-STD1-S             5
 __  DEP-SYSA                  ADMIN    Created by PWR-EMPL-STD1-S             9
 __  DEP-SYSU                  ADMIN    Created by PWR-EMPL-STD1-S             5
 __  DEP-TECH                  ADMIN    Created by PWR-EMPL-STD1-S            29
 __  DEP-VENT                  ADMIN    Created by PWR-EMPL-STD1-S            61
 Top Of Data
  Command => _____
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
       Help  Add   Exit  Flip               -     +     Activ      Selct Menu
```

By pressing PF21 (Ext), you can switch to short names display.
Then the Bundle Maintenance screen will take the following form:

```
  17:08:18               **** ENTIRE OUTPUT MANAGEMENT ****          2000-11-15
  User ID GHH                 - Bundle Maintenance -     Report _____

  Cmd Bundle     Authoriz Description                                      NumRep
  ___ _____   _____ _____   _____
   __ DEP-ADMA   ADMIN    Created by PWR-EMPL-STD1-S                          6
   __ DEP-COMP   ADMIN    Created by PWR-EMPL-STD1-S                         23
   __ DEP-DEPT   ADMIN    Created by DB-POWER-BIG1-S                         21
   __ DEP-FINA   ADMIN    Created by PWR-EMPL-STD1-S                         11
   __ DEP-HUGO   ADMIN    Created by PWR-EMPL-STD1-S
   __ DEP-MARK   ADMIN    Created by PWR-EMPL-STD1-S                         11
   __ DEP-MASK   ADMIN    Created by PWR-EMPL-STD1-S                          5
   __ DEP-MGMT   ADMIN    Created by PWR-EMPL-STD1-S                         26
   __ DEP-PROD   ADMIN    Created by PWR-EMPL-STD1-S                         10
   __ DEP-SALE   ADMIN    Created by PWR-EMPL-STD1-S                         19
   __ DEP-SALG   ADMIN    Created by PWR-EMPL-STD1-S                          5
   __ DEP-SYSA   ADMIN    Created by PWR-EMPL-STD1-S                          9
   __ DEP-SYSU   ADMIN    Created by PWR-EMPL-STD1-S                          5
   __ DEP-TECH   ADMIN    Created by PWR-EMPL-STD1-S                         29
   __ DEP-VENT   ADMIN    Created by PWR-EMPL-STD1-S                         61
  Top Of Data
   Command => _____
  Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
        Help  Add   Exit  Flip              -     +     Activ       Selct Menu
```

The Bundle Maintenance screen lists all Bundle definitions, in alphabetical order, which were created by the User or by someone else who authorized this user to process them.

Special PF Key Assignments: Bundle Maintenance

PF Key	Function	Explanation
PF2	Add	Add a new Bundle.
PF9	Activ	Switch to the Active Bundles list screen. For more information, see the Section Using Active Bundles.
PF11	Selct	Open the Bundle Selection window.
PF21	Ext	Switch between display of long and short report/bundle names.

Available Line Commands: Bundle Maintenance

Command	Meaning
AR	Add Report to the Bundle.
AU	Authorize other Users to process the Bundle. Only Users with owner authorization for the Bundle can perform this function. For further information, see the Section Authorizing User Access to Objects.
CO	Copy Bundle definition (including Reports contained in the Bundle). A window opens in which you can enter the name of the new Bundle to be created.
DE	Delete Bundle definition.
DI	Display Bundle definition.
LO	Display Log information about maintenance activity on this Bundle such as who last modified it, who created it, etc.
MO	Modify Bundle definition.
RN	Rename Bundle definition.
RP	List the Reports contained in the Bundle.

Column Headings: Bundle Maintenance

Use an asterisk ***** as wildcard to enter selection criteria in all fields marked with an asterisk. Only those Bundles which satisfy the criteria are listed.

- **Report *** (optional)
  Enter selection criteria for the Report name(s). This is very useful, if you are looking for a Bundle containing specific Reports but do not know the Bundle name.
- **Cmd**
  Enter a two-character line command here.
- **Bundle ***
  Enter selection criteria for the Bundle name.
- **Authorization ***
  Authorization used to access object. You can enter: PUBLIC, a User ID or the name of a Distribution List to display selected Bundles. ADMIN indicates that you are defined as Administrator with Owner authorization for the listed objects. ADMIN cannot be used as selection criteria.
- **Description**
  A short description of the Bundle.
- **NumRep**
  Number of Reports in the Bundle.

Adding a Bundle Definition

▶ To add a Bundle

- Press PF2 (Add) on the Bundle Maintenance screen.

  The Bundle Definition screen appears:

  If long report and bundle names are displayed by the system (see settings in System Defaults and Adding a User Profile), the Bundle Maintenance screen will take the following form:

```
  14:31:42              **** ENTIRE OUTPUT MANAGEMENT ****           2000-11-15
 User ID GHH                   - Bundle Definition -

 Bundle
    Name .............. _____
 Description ......... _____

 Coordinator ID ....... _____
 Retention ........... ___ (Period)     _ (Unit)        _____ (Calendar)

 Print events
    Time schedule ..... N (Y/N)
    Force flush ....... ___ (Period)     _ (Unit)        _____ (Calendar)
    Lines exceeded .... _____
    Report arrival .... _____  _____
                        _____  _____
                        _____  _____
                        _____  _____
                        _____  _____


 Command => _____
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
       Help  Add   Exit  Flip  Do    Undo        Sched Print            Menu
```

By pressing PF21 (Ext), you can switch to short names display.
Then the Bundle Maintenance screen will take the following form:

```
  14:31:42              **** ENTIRE OUTPUT MANAGEMENT ****           2000-11-15
 User ID GHH                   - Bundle Definition -

 Bundle
    Name .............. _____
 Description ......... _____

 Coordinator ID ....... _____
 Retention ........... ___ (Period)     _ (Unit)        _____ (Calendar)

 Print events
    Time schedule ..... N (Y/N)
    Force flush ....... ___ (Period)     _ (Unit)        _____ (Calendar)
    Lines exceeded .... _____
    Report arrival .... _____  _____
                        _____  _____
                        _____  _____
                        _____  _____
                        _____  _____


 Command => _____
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
       Help  Add   Exit  Flip  Do    Undo        Sched Print            Menu
```

These screens are used to define a new Bundle or modify an existing Bundle definition.

Special PF Key Assignments: Bundle Definition

PF Key	Function	Explanation
PF2	Add	Add another Bundle.
PF8	Sched	Define a Print Schedule.
PF9	Print	Define Print Attributes.
PF21	Ext	Switch between display of long and short report/bundle names.

Field Descriptions: Bundle Definition

- **Bundle Name**
  You must enter a unique name for the Bundle when you are creating a new Bundle. This field is protected when modifying an existing Bundle.
- **Description**
  Enter a short description for the Bundle.
- **Coordinator ID**
  Enter the User ID of the person who is responsible for this Bundle.
  If you make no entry here, your User ID is automatically written to this field.
  (The coordinator's name, address and telephone number can be printed at the top of the front page of the Bundle separator, if so desired.) For more information, see the subsection Selecting a Bundle Coordinator.
- **Retention** (3 fields)

  A **closed** Bundle is kept in the Entire Output Management Data Base until its Retention Period has expired. A closed Bundle can accept no more Reports and a new version of the Bundle is opened for additional Reports. For more information, see the subsection Defining the Retention Period for a Bundle.

  - **(Period)**
    Enter the number of working days, absolute days, weeks or months the Bundle should be kept in the Entire Output Management Data Base, after it has been closed. When you specify working days, you must enter the name of a Calendar in the (Calendar) field to include only working days.
    The default is the system-wide period defined by the system administrator. For more information, see Retention Period under the heading Field Descriptions: Default Bundle Processing of the System Programmer's Documentation.
  - **(Unit)**
    Possible values:
    W   Working days
    A   Absolute days
    V   Weeks
    M   Months
  - **(Calendar)**
    Select a Calendar if **W**, working days, is the unit for the Retention Period.
    For example, assume you have defined a Calendar in which Saturday and Sunday are marked as holidays: if you enter 2 in the (Number) field, **W** in the (Unit) field and the Bundle is created on Friday evening, then it will be retained until Tuesday evening.

Print Events

- **Time schedule (Y/N)**
  The Bundle can be printed at specified times on specified days.
  Enter **Y** to activate the time schedule which you can define by pressing PF8 (Sched). For more information, see the subsection Defining a Print Schedule for a Bundle.
- **Force Flush** (3 fields)
  If none of the other print events occurs before the period entered here has expired, Bundle closing and printing is forced.
  - **(Period)**
    Enter the number of working days, absolute days, weeks or months the Bundle should remain open. When

you specify working days, you can enter the name of a Calendar in the (Calendar) field to include only working days.

    ○ **(Unit)**
      See (Unit) under Retention above.
    ○ **(Calendar)**
      If **W**, working days, is the Unit, select a Calendar.

- **Lines Exceeded**
  When the Report that causes this line number to be exceeded has been written to the Bundle, the Bundle is closed and scheduled for printing.
- **Report Arrival**
  Enter up to 10 Report names here. The Bundle is printed when all these Reports arrive. See the subsection Selecting Reports to Trigger Printing.

Defining Print Parameters for a Bundle

Defining print parameters for a Bundle involves:

- selecting a Bundle coordinator
- selecting Reports to trigger printing
- selecting a Logical Printer(s)
- defining Separator Pages for the Bundle and for Reports in the Bundle

Bundles can be printed:

- manually by an operator
- at a predefined time
- when one or more defined Reports have been processed
- by an Entire Operations trigger.
- by an API trigger from an external application using API

At print time Separator Pages are created as follows:

- one at the start of the Bundle
- one at the end of the Bundle
- optionally, Separator Pages can be printed between Reports

A table of contents is printed at the end of the Bundle and lists the Reports contained.

Selecting a Bundle Coordinator

You can enter the User ID of the person who is responsible for this Bundle.
The coordinator's name, address and telephone number can be used as substitution variables for Separator Pages.

▶ **To select a coordinator from a list of Users**

- Enter a question mark (?) in the Coordinator ID field on the Bundle Definition screen and press Enter.

  The Bundle Coordinator ID window opens:

```
  15:30:49              **** ENTIRE OUTPUT MANAGEMENT ****           2000-11-15
 User ID GHH                      - Bundle Definition -

 Bundle
    Name .............. GHH-DEMO_____
 Description .........  _____

 Coordinator ID ....... ?HH_____
 Retention ........... +-----------------------------------------+ ndar)
                       !            Bundle Coordinator Id         !
 Print events          !                                         !
    Time schedule ..... ! Enter a User ID of which the personal   !
    Force flush ....... ! details will be printed on the bundle   ! ndar)
    Lines exceeded .... ! separator front page.                   !
    Report arrival .... ! The printed details include address,    !_____
                        ! phone number, name etc..                !_____
                        !                                         !_____
                        !  PF3   Quit help                        !_____
                        !  Enter User Selection List              !_____
                        !                                         !
                        +-----------------------------------------+
 Command => _____
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
        Help  Add   Exit  Flip  Do    Undo        Sched Print              Menu
```

- Press Enter again.

  The User Selection List window opens:

```
  15:35:28              **** ENTIRE OUTPUT MANAGEMENT ****           2000-11-15
 Use +----------------------------------------------------+
    !               User Selection List                  !
 Bun !                                                    !
    ! M     User       Name                               !
 Des ! _    _____   _____       ! _____
    ! _     GHH        Hahn, Gerrit                        !
 Coo ! _     DRO        Ross, Detlaff                      !
 Ret ! _     DWE        Weichert, Dietmar                  ! -------+ ndar)
    ! _     GHH        Hahn, Gerrit                        !        !
 Pri ! _     GW         Wagner, Gerhard                    !        !
    ! _     GW1        Wagner, Gerhard                     ! nal    !
    ! _     HGR        Graham, Dan                         ! dle    ! ndar)
    ! _     HKA        xx, xx                              !        !
    ! _     LA         Lampe, Ernst                        ! s,     !
    ! _     MRS        Roser, Markus                       !        !
    !                                                      !        !
    !          Select With Any Character                  !        !
    !                                                      !        !
    !  PF3 Exit  PF7 Up  PF8 Down                          !        !
    !                                                      ! -------+
 Com +----------------------------------------------------+ _____
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
        Help  Add   Exit  Flip  Do    Undo        Sched Print              Menu
```

  This window lists the IDs of all authorized Users.

- Select an ID by entering any character in the one-character input field preceding the appropriate ID and pressing Enter.

The ID you have selected is written to the Coordinator ID field of the Bundle Definition screen.

Selecting Reports to Trigger Printing

You can enter up to 10 Report names. When all of them arrive, the Bundle is printed.

▶ **To select Reports which trigger Bundle printing**

- Enter a question mark (?) in one of the Report arrival fields on the Bundle Definition screen and press Enter.

    The Trigger Reports window opens:

```
  15:44:08              **** ENTIRE OUTPUT MANAGEMENT ****            2000-11-15
  User ID GHH                +----------------------------------------+
                             !              Trigger Reports           !
  Bundle                     !                                        !
     Name ..............     ! A bundle may be triggered for printing !
  Description .........      ! by specifying a list of trigger reports. !  _____
                             ! If all trigger reports exist at any     !
  Coordinator ID .......     ! point of time then the bundle is closed !
  Retention ...........      ! and printed.                            ! ndar)
                             !                                        !
  Print events               !  Enter Report Selection List           !
     Time schedule .....     !  PF3   Quit help                       !
     Force flush .......     !                                        ! ndar)
     Lines exceeded ....     +----------------------------------------+
     Report arrival ....  ?_____  _____
                             _____  _____
                             _____  _____
                             _____  _____


   Command => _____
  Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
        Help  Add   Exit  Flip  Do    Undo        Sched Print              Menu
```

    Trigger Reports are automatically added to the list of Reports to be included in the Bundle (see the subsection Defining Bundle Contents). However, they are not automatically deleted from Bundle Contents (Report in Bundle screen) when removed from Report arrival.

- Press Enter again.

    The Report Selection List window opens:

```
   15:44:08              **** ENTIRE OUTPUT MANAGEMENT ****            2000-11-15
  User ID GHH            +--------- +-----------------------------+
                         !          !   - Report Selection List -  !
  Bundle                 !          !   Select with any character  !
     Name ............. ! A bundle !                               !
  Description ......... ! by speci !           Report              ! ____
                         ! If all t !   _      _____  !
  Coordinator ID ...... ! point of !   _      ADABAS-DEFAULT       !
  Retention ........... ! and prin !   _      ADABAS-START-JOB     ! dar)
                         !          !   _      ADAREP-DB088         !
  Print events          !   Enter R !   _      ADAREP-DB088-EXT     !
     Time schedule ..... ! PF3   Q !   _      ADAREP088-NOM        !
     Force flush ....... !          !   _      BERTA               ! dar)
     Lines exceeded .... +--------- !   _      GHH-ABCD            !
     Report arrival .... ?_____ !   _      DB-FVSE-BIG-S        !_____
                         _____ !   _      DB-FVSE-BIG1-S       !_____
                         _____ !   _      DB-FVSE-POINTER      !_____
                         _____ !                               !_____
                         _____ !   PF3 Exit PF7 Up PF8 Down    !
                                    !                               !
                                    +-----------------------------+
                         _____  _____
  Command => _____
  Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
       Help  Add   Exit  Flip  Do    Undo        Sched Print             Menu
```

This window lists the names of all defined Reports.

- Scroll the list down with PF8 (Down) and back up with PF7 (Up).
- Select a Report to trigger Bundle printing by entering any character in the one- character input field preceding the appropriate Report name and pressing Enter.

  The name of the Report you have selected is written to the Report arrival field on the Bundle Definition screen.

Selecting a Logical Printer for a Bundle and Defining Separator Pages

▶ **To select Logical Printers to print the Bundle and define Separator Pages**

- Press PF9 (Print) on the Printing Attributes screen.

  The Bundle Definition >Printing Attributes screen appears:

```
  14:44:36                **** ENTIRE OUTPUT MANAGEMENT ****              2000-11-15
 User ID GHH           - Bundle Definition>Printing Attributes -

 Bundle
    Name .............. GHH-DEMO_____

 Hold before print .... _ (Y/N)
 Printers ............. _____  _____  _____  _____  _____
 Copies ............... ___       ___       ___       ___       ___

 Report Separator Pages _ (Y/N)
 Bundle Separator Pages
    Start ............. _____
    End ............... _____
    Copies ........... 1__

 Jobcards

    _____
    _____
    _____


 Command => _____
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Add   Exit  Flip  Do    Undo              Ext   Edit  Prtr  Menu
```

Special PF Key Assignments: Bundle Definition - Printing Attributes

PF Key	Function	Explanation
PF10	Edit	Edit Separator member. Position cursor on Start or End field. Press PF10.
PF11	Prtr	Define (up to 20) additional printers.

Field Descriptions: Bundle Definition - Printing Attributes

- **Hold Before Print**
  Enter **Y** to hold Bundle printing until released manually.
  Enter **N** to print Bundle immediately.
- **Printers**
  You can enter the names of up to 5 Logical Printers, on which to print the Bundle. If printers are specified in the Bundle Defaults (see Printer fields in the System Programmer's Documentation) they appear here. You can delete or change these.

▶ **To select a Logical Printer from a list of printers which have already been defined**

- Enter a question mark (?) in one of these fields and press Enter.

  The Printer Selection List window opens:

```
  15:58:49              **** ENTIRE OUTPUT MANAGEMENT ****            2000-11-15
 User ID GHH          - Bundle Definition>Printing Attributes -
                                    +-----------------------------------------+
 Bundle                            !        - Printer Selection List -        !
    Name .............. GHH-DEMO__ !                                          !
                                   !         Select with any character        !
 Hold before print .... _ (Y/N)   !  _   ABC        Print to Connect CON      !
 Printers ............. ?_____ _ !  _   DAEPRT12                             !
 Copies ............... ___      _ !  _   DAEPRT14   DC Group Printer          !
                                   !  _   MRSCNT0    Print to Connect CON      !
 Report Separator Pages _ (Y/N)   !  _   MRSCNT1    Print to Connect CON      !
 Bundle Separator Pages           !  _   MRSCNT11   Connect Printer           !
    Start ............. _____   !  _   MRSCNT21   Connect Printer           !
    End ............... _____   !  _   MRSCNT31   Connect Printer           !
    Copies ........... 1__         !  _   MRSPWR     Print to POWER            !
                                   !  _   MRSPWR2    Print to Power witho      !
 Jobcards                          !                                          !
    _____   ! Top Of Data                              !
    _____   !                                          !
    _____   !  PF3 Exit PF7 Up PF8 Down                !
                                   !                                          !
 Command => _____    +-----------------------------------------+
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Add   Exit  Flip  Do   Undo              Ext   Edit  Prtr  Menu
```

This window lists the names of all defined Logical Printers.

- Select a printer by entering any character in the one-character input field preceding the appropriate printer and pressing Enter.

  The name of the Logical Printer you have selected is written to the Printers field of the Printing Attributes screen.

- **Copies**
  Enter the number of times the Bundle is to be printed on the respective printers.
- **Report Separator Pages (Y/N)**
  Y is the default value and prints the Report Separator Page.
  Enter **N** not to print the Separator.
  The number of Separator Pages can be defined for each Report in the Bundle.
  See the subsection Adding a Report to a Bundle.
- **Bundle Separator Pages** (3 fields)

  If separator values are specified in the Bundle Processing Defaults (see Separator fields of the System Programmer's Documentation), they appear in the (Start) and (End) fields here. You can change or delete these.

  - **(Start)**
    Enter the name of the separator member to be printed at the **beginning** of the Bundle. If this field is omitted, then the standard separator is used.
  - **(End)**
    Enter the name of the separator member to be printed at the **end** of the Bundle.
    If this field is omitted, then the standard separator is used.
  - **(Copies)**
    Enter the number of Separator Pages to be printed for the Bundle.
- **Jobcards**
  Enter the job cards used when Bundle printing is performed with batch jobs. The following substitution variables can be used:

```
§USER, §BUNDLE
```

If you leave this field blank, the Jobcards specification for the Logical Printer is used instead. See Jobcards in Defining a Logical Printer.

▶ To define or modify more than 5 printers

- Press PF11 (Prtr) on the Bundle Definition >Printing Attributes screen.

  The screen Bundle Definition >Additional Printers appears:

```
  14:25:21              **** ENTIRE OUTPUT MANAGEMENT ****            2000-11-15
 User ID        GHH - Bundle Definition >Additional Printers -

 Bundle
   Name................ UKSJUBU2

 Printers   (6-10).....  _____  _____  _____  _____  _____
 Copies     (6-10).....  ___       ___       ___       ___       ___

 Printers   (11-15)....  _____  _____  _____  _____  _____
 Copies     (11-15)....  ___       ___       ___       ___       ___

 Printers   (16-20)....  _____  _____  _____  _____  _____
 Copies     (16-20)....  ___       ___       ___       ___       ___




 Command => _____
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Add   Exit  Flip  Do    Undo                  Ext         Menu
```

Using this screen, you can define up to 20 additional printers.

Field Description: Bundle Definition - Additional Printers

○ **Printer**
  Enter the names of up to 15 logical printers on which the bundle is to be printed. If you enter a question mark (**?**) in this field and press Enter, the printer selection list will appear.
○ **Copies**
  Specify how many copies should be printed on each printer.

Defining a Print Schedule for a Bundle

You can define a print schedule for a Bundle by pressing PF8 (Sched) from the Bundle Definition screen. This schedule is activated if you enter **Y** in the Time schedule field on the Bundle Definition screen.

▶ To define a print schedule for a bundle

- Press PF8 (Sched).

  The Print Schedule window opens:

```
   14:40:10    +-------------------------------------------------------------+
 User ID GHH   !                                                             !
               !     Print Schedule                                          !
 Bundle        !       not before ... 00:00                                  !
    Name .... ! !       every ....... 00:00                                  !
 Description   !       not later .... 00:00                                  !
               !                                                             !
 Coordinator   !     Weekdays ........ __ __ __ __ __ __ __                   !
 Retention ..  !                       (Sa Su Mo Tu We Th Fr)                !
               !     Monthly Days .... ___ ___ ___ ___ ___ ___               !
 Print events  !                       ___ ___ ___ ___ ___ ___               !
    Time sche  !                       ___ ___ ___ ___ ___ ___               !
    Force flu  !                       ___ ___ ___ ___ ___ ___               !
    Lines exc  !                       ___ ___ ___ ___ ___ ___               !
    Report ar  !                                                             !
               !     Calendar ........ _____                              !
               !     before or after                                        !
               !     Holiday ......... _                                     !
               !                                                             !
               +-------------------------------------------------------------+

  Command => _____
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Add   Exit  Flip  Do    Undo                              Menu
```

Field Descriptions: Print Schedule

- **not before**
  The Bundle is not printed before the time you enter here.
- **every**
  Enter a time interval here. For example, if you enter 8:00 in **not before**, above and 01:00 in **every** and the Bundle arrives at 8:36, it will be printed at 9:00.
  If the Bundle arrives between 9:00 and 10:00, it will be printed at 10:00, and so forth. See the subsection Print Schedule Examples.
- **not later**
  The Bundle is not printed after the time you enter here.
- **Weekdays**
  To print the Bundle on the same days every week, enter two-letter code for the days:
  SA (Saturday), **SU** (Sunday), **MO** (Monday), **TU** (Tuesday),
  WE (Wednesday), **TH** (Thursday) **FR** (Friday).
- **Monthly Days**
  If the Bundle is to be printed on the same dates every month, enter the dates here in two-digit format: 01, 02, 03 ... 26, 27.
  Enter ALL for all days of the month or LD for the last day of the month.

  Note:
  You cannot specify both weekdays and monthly days in parallel.

- **Calendar**
  If you specify a Calendar here, the Bundle is only printed on days defined as **workdays** in the Calendar. The Bundle is not printed on days defined as **holidays**. To select a Calendar from a list of defined Calendars, enter a question mark (?) here and press Enter. The Calendar Selection List window opens:

  Bundle Definition screen - Calendar Selection List window

```
   16 +--------------------------+ -----------------------------------------+
 Use !   Calendar Selection List  !                                         !
     !                            !                                         !
 Bun !    Cmd   Calendar  Year    !  00:00                                  !
     !    ___   _____  ____    !  00:00                                  !
 Des !    __    GHH       1999    !  00:00                                  !
     !    __    DEMO-CAL  1999    !                                         !
 Coo !    __    LAMPE     1999    !  __ __ __ __ __ __ __                    !
 Ret !    __                      ! (Sa Su Mo Tu We Th Fr)                  !
     !    __                      !  ___ ___ ___ ___ ___ ___                !
 Pri !    __                      !  ___ ___ ___ ___ ___ ___                !
     !    __                      !  ___ ___ ___ ___ ___ ___                !
     !    __                      !  ___ ___ ___ ___ ___ ___                !
     !    __                      !  ___ ___ ___ ___ ___ ___                !
     !    __                      !                                         !
     !                            !  ?_____                               !
     !  PF3  Exit                 !                                         !
     !                            !  _                                      !
     +--------------------------+                                           !
           +----------------------------------------------------------------+
                                                                            +

 Command => _____
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
       Help  Add   Exit  Flip  Do    Undo                              Menu
```

This window lists the names of all defined Calendars. Select a Calendar by entering any character in the field preceding it and pressing Enter.
The name of the Calendar selected is written to the Calendar field.

For more information on Calendars, see the subsection Defining a Calendar in the System Programmer's Documentation.

- **before or after Holiday**
  Should a printing date fall on a Calendar holiday, enter **A** here to print on the first workday **after** the holiday, enter **B** to print on the last workday **before** the holiday.

Print Schedule Examples

Print at a Fixed Time on Fixed Weekdays - also on holidays

▶ **To print a Bundle at 2 p.m. on all Mondays, Wednesdays and Fridays whether or not they are holidays**

- Define these fields as follows:
  - ○ not before   **14:00**
  - ○ every   **00:00**
  - ○ not later   **14:00**
  - ○ Weekdays   **MO**, **WE**, **FR**

Print at a Fixed Time on Fixed Monthly Dates - on day before holiday

▶ **To print a Bundle at 7 p.m. on the 15th and on the last day of the month or, if these days are holidays, on the last workday <u>before</u> the holiday**

- Define these fields as follows:
  - ○ not before   **19:00**
  - ○ every   **00:00**
  - ○ not later   **19:00**

- ○ Monthly   **15**, **LD**
- ○ Calendar   **MRS**
- ○ before/after   **B**

Print Schedule Examples - continued

Print Daily between Fixed Times - on day after holiday

▶ **To print a Bundle daily when it arrives between 8 a.m. and 7 p.m. or, if the day is a holiday, on the first workday <u>after</u> the holiday**

- Define these fields as follows:
  - ○ not before   **08:00**
  - ○ every   **00:00**
  - ○ not later   **19:00**
  - ○ Monthly   **ALL**
  - ○ Calendar   **MRS**
  - ○ before/after   **A**

Print on Workdays at Fixed Times - on day after holiday

▶ **To print a Bundle at 7 a.m., 1 p.m. and 7 p.m. from Monday to Friday or, if the day is a holiday, on the first workday <u>after</u> the holiday**

- Define these fields as follows:
  - ○ not before   **07:00**
  - ○ every   **06:00**
  - ○ not later   **19:00**
  - ○ Weekdays   **MO**, **TU**, **WE**, **TH**, **FR**
  - ○ Calendar   **MRS**
  - ○ before/after   **A**

Defining the Retention Period for a Bundle

Selecting a Calendar

If you specify **W** working days as the unit for the Retention Period, you can select a Calendar which excludes holidays.

▶ **To select a Calendar from a list of defined Calendars**

- enter a question mark (?) in the Retention (Calendar) field on the Bundle Definition screen and press Enter.

  The Calendar Selection List window opens:

```
   16:25:29          +----------------------------+ MENT ****              2000-11-15
   User ID GHH       !  Calendar Selection List   !  -
                     !                            !
   Bundle            !   Cmd   Calendar   Year    !
      Name ....... ! ___   _____   ____    !
   Description ... !     __   GHH        1999    ! _____
                     !     __   DEMO-CAL   1999    !
   Coordinator ID  !     __   LAMPE      1999    !
   Retention ..... !     __                       ! )       ?_____ (Calendar)
                     !     __                       !
   Print events     !     __                       !
      Time schedul !     __                       !
      Force flush  !     __                       ! )        _____ (Calendar)
      Lines exceed !     __                       !
      Report arriv !     __                       ! _____
                     !                            ! _____
                     !  PF3  Exit                 ! _____
                     !                            ! _____
                     +----------------------------+


   Command => _____
   Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
         Help  Add   Exit  Flip  Do    Undo        Sched Print              Menu
```

This window lists the names of all defined Calendars.

● Select a Calendar by entering any character in the field preceding it and pressing Enter.

The name of the Calendar selected is written to the (Calendar) field on the Bundle Definition screen.

For more information on Calendars, see the subsection Defining a Calendar in the System Programmer's Documentation.

Defining Bundle Contents

Listing the Reports Included in a Bundle

▶ **To list the Reports to be included in a Bundle**

● Enter the RP line command in the two-character command line preceding the appropriate Bundle on the Bundle Maintenance screen. Press Enter.

The Report in Bundle screen appears with a list of all Reports to be included in the Bundle.

If long report and bundle names are displayed by the system (see settings in System Defaults and Adding a User Profile), the Report in Bundle screen will take the following form:

```
 14:48:15               **** ENTIRE OUTPUT MANAGEMENT ****           2000-11-15
 User ID GHH            - Report In Bundle -      UKSJUBU2

 Cmd Group      Sequence Report                    Copies  Separator NumSep
 ___ _____   _____ _____  _____ _____ _____
 __  SJUGRP1       1     UKSJU-SEP-1                        DEFAULT      1
 __  SJUGRP1       2     UKSJU-SEP-2                        DEFAULT      1
 __  SJUGRP1       3     UKSJU-SEP-3                        DEFAULT      1
 __  SJUGRP1       4     UKSJU-SEP-4                        DEFAULT      1
 __  SJUGRP1       5     UKSJU-SEP-5                        DEFAULT      1
 __  SJUGRP1       6     UKSJU-SEP-6                        DEFAULT      1
 __  SJUGRP1       7     UKSJU-SEP-7                        DEFAULT      1
 __  SJUGRP1       8     UKSJU-SEP-8                        DEFAULT      1
 __  SJUGRP1       9     UKSJU-SEP-9                        DEFAULT      1
 __  SJUGRP1      10     UKSJU-SEP-10                       DEFAULT      1
 __  SJUGRP1      11     UKSJU-SEP-11                       DEFAULT      1
 __  SJUGRP1      12     UKSJU-SEP-12                       DEFAULT      1
 __  SJUGRP1      13     UKSJU-SEP-13                       DEFAULT      1
 __  SJUGRP1      14     UKSJU-SEP-14                       DEFAULT      1
 __  SJUGRP1      15     UKSJU-SEP-15                       DEFAULT      1
Top Of Data
 Command => _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Add   Exit  Flip              -     +     Ext               Menu
```

By pressing PF9 (Ext), you can switch to short names display.
Then the Report in Bundle screen will appear:

```
 16:28:45               **** ENTIRE OUTPUT MANAGEMENT ****           2000-11-15
 User ID GHH               - Report In Bundle - DEP-ADMA

 Cmd Group      Sequence Report              Copies Separator NumSep
 ___ _____   _____ _____ _____ _____ _____
 __   DEP-ADMA     1     DEPTS1-ADMA                DEFAULT      1
 __   DEP-ADMA     1     DBDS1-ADMA                 DEFAULT      1
 __   DEP-ADMA     1     DBSS1-ADMA                 DEFAULT      1
 __   DEP-ADMA     1     STD22-ADMA01               DEFAULT      1
 __   DEP-ADMA     1     STD21-ADMA                 DEFAULT      1
 __   DEP-ADMA     1     STD22-ADMA02               DEFAULT      1
 __
 __
 __
 __
 __
 __
 __
 __
 __
All
 Command => _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Add   Exit  Flip              -     +     Ext               Menu
```

You may add and delete Reports from the Bundle or modify the Report parameters from these screens. The Reports are displayed in the order of their sequence in the Bundle.

Special PF Key Assignments: Report in Bundle

PF Key	Function	Explanation
PF2	Add	Add a Report to the Bundle.

Available Line Commands: Report in Bundle

Command	Meaning
DE	Delete a Report from the Report in Bundle list.
MO	Modify Report parameters in the Bundle.

Column Headings: Report in Bundle

- **Cmd**
  Enter a two-character line command here.
- **Group**
  The name of the group in which the Report is to be printed.
  Groups of Reports in a Bundle are printed in **alphabetical order**.
- **Sequence**
  The sequential number of the Report in the Bundle.
  The Reports are printed in this sequence **within the same Group**.
- **Report**
  The name of the Report.
- **Copies**
  The number of copies of this Report printed in the Bundle.
- **Separator**
  The separator member name used for this Report in the Bundle.
- **NumSep**
  The number of times the Separator Page is printed.

Adding a Report to a Bundle

▶ **To add a Report to a Bundle**

- Press PF2 (Add) on the Report in Bundle screen;

  OR

- On the Bundle Maintenance screen, enter the AR line command in the two-character command line preceding the Bundle to which you want to add the Report. Press Enter.

  The Bundle Contents window opens:

```
  14:48:15                **** ENTIRE OUTPUT MANAGEMENT ****              2000-11-15
 User ID GHH              - Report In Bundle -       UKSJUBU2

 Cmd Group     Sequence   Report                      Copies  Separator  NumSep
 ___ _____  _____   _____   _____  _____  _____
  __  SJUGRP1    1        UKSJU-SEP-1                         DEFAULT       1
  __  SJU +-------------------------------------------------+ LT 1
  __  SJU !  - Bundle Contents - Of: UKSJUBU2               ! LT 1
  __  SJU !                                                 ! LT 1
  __  SJU ! Report name .......... _____ ! LT 1
  __  SJU ! Grouping Name ........ _____                 ! LT 1
  __  SJU ! Sequence Number ...... 1__                      ! LT 1
  __  SJU ! Number Of Copies ..... ___                      ! LT 1
  __  SJU ! Num Of Separators .... 0__                      ! LT 1
  __  SJU ! Pagedef .............. _____                 ! LT 1
  __  SJU ! Formdef .............. _____                 ! LT 1
  __  SJU ! Logical Printer ...... _____                 ! LT 1
  __  SJU !                                                 ! LT 1
  __  SJU !                                                 ! LT 1
  __  SJU ! PF3 Exit PF5 Do PF6 Undo PF9 Ext                ! LT 1
Top Of Da +-------------------------------------------------+
 Command => _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
     Help  Add   Exit  Flip               -     +    Ext               Menu
```

This window is used to add a Report to a Bundle or modify the print parameters of a Report already in a Bundle.

Field Descriptions:

- **Report Name**
  If you are adding the Report to the Bundle, enter the Report name.
  If you are modifying printing parameters, the name of the Report appears here and the field is protected.
  Alternatively, enter a question mark **?** and press Enter to open a selection window from which you can select a Report.
- **Grouping Name**
  If you want to subdivide the Bundle, then you can enter a group name for this Report. All Reports in the Bundle with the same group name are printed together in their group according to their sequence numbers.
- **Sequence Number**
  Enter the sequential number of the Report in the Bundle.
  Reports are printed **in this sequence within their group** in the Bundle. Reports with the same sequence number within a group are printed in the sequence in which they are listed on the Report in Bundle screen (see Defining Bundles Contents for an example).
- **Number of Copies**
  Enter the number of copies of the Report to be printed.
- **Num of Separators**
  Enter the number of times the Report Separator Page is to be printed in the Bundle. The default is 1.
- **Pagedef**
  If you want the Report to be printed on an IPDS printer, enter the PAGEDEF JCL parameter to be used.
- **Formdef**
  If you want the Report to be printed on an IPDS printer, enter the FORMDEF JCL parameter to be used.
- **Logical Printer**
  Enter the name of the Logical Printer to be used for the Report.

When you have finished entering data, press Enter.

A message confirms that the Report parameters have been saved:

```
Record added
```

Modifying a Report in a Bundle

▶ **To modify the parameters of a Report listed on the Report in Bundle screen**

- Enter the MO line command in the two-character command line preceding the name of the Report you want to modify and press Enter.

  The Bundle Contents window opens for the Report selected.

- When you have entered your modifications, press Enter.

  A message confirms that the modifications have been saved:

```
Record modified
```

Selecting Bundle Definitions with Selection Criteria

▶ **To list only the names of Bundles which begin with a certain prefix, containing only certain Reports or created by a certain master**

- Press PF11 to open the Bundle Selection window:

```
 15:24:40              **** ENTIRE OUTPUT MANAGEMENT ****          2000-11-15
 User ID GHH           - Bundle Maintenance - Report _____

 Cmd Bundle                    Authoriz Description                        NumRep
 ___ _____   _____  _____ _____
     __ GHH-DEMO               ADMIN
     __ DEP-ADMA               ADMIN    Created by PWR-EMPL-STD1-S               6
     __ DEP-COMP               ADMIN    Created by PWR-EMPL-STD1-S              23
     __ DEP-DEPT               ADMIN    Created by DB-POWER-BIG1-S             21
     __ DEP-FINA               ADMIN    Created by PWR-EMPL-STD1-S             11
     __ DEP-HUGO     +-------------------------------------------------+
     __ DEP-MARK     !            Bundle Selection Screen              !        11
     __ DEP-MASK     !                                                 !         5
     __ DEP-MGMT     ! Bundle............ _____ !        26
     __ DEP-PROD     ! Containing reports. _____ ! zz     10
     __ DEP-SALE     ! Created by master.. _____ ! ZZ     19
     __ DEP-SALG     ! For coordinator.... _____                    !         5
     __ DEP-SYSA     !                                                 !         9
     __ DEP-SYSU     +-------------------------------------------------+         5
     __ DEP-TECH               ADMIN    Created by PWR-EMPL-STD1-S             29
 Top Of Data
  Command => _____
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
       Help  Add   Exit  Flip              -     +    Activ       Selct Menu
```

This window allows you to enter selection criteria for the Bundles listed on the Bundle Maintenance screen.

Field Descriptions: Bundle Selection window

Use an asterisk ***** as wildcard to enter selection criteria in the following fields. Only those Bundles which satisfy the criteria are listed.

- **Bundle**
  Enter selection criteria for the Bundle prefix.
- **Containing Reports**
  Enter selection criteria for the prefix of the Report(s) contained in the Bundles.
- **Created by master**
  Enter selection criteria for the prefix of the Master Report definition(s) that automatically created the Bundle(s).
- **For coordinator**
  Enter the coordinator ID of the Bundles to be listed.

Other Bundle Maintenance Functions

Modifying a Bundle Definition

▶ To modify a bundle definition

- On the Bundle Maintenance screen, enter MO in the two-character command line preceding the Bundle you want to modify and press Enter.

  The Bundle Definition screen appears for the Bundle you have selected.

- You can modify the data displayed by simply entering new data in the input fields. When you have finished modifying the Bundle definition, press Enter to save your modifications.

  A message confirms that the Bundle definition has been successfully modified:

  ```
  Record modified
  ```

- If COMMIT is set to OFF, press PF5 (Do) to save your modifications before exiting. If you do not, a window opens which asks you to commit modifications by typing **Y**. Type **Y** and press Enter.

  A message confirms:

  ```
  All modifications committed
  ```

For explanations of the input fields, see the heading Field Descriptions: Bundle Definition.

Authorizing User Access to a Bundle

▶ To authorize user access to a bundle

- On the Bundle Maintenance screen, enter AU in the two-character command line preceding the Bundle for which you want to grant authorization and press Enter.

  The Authorization List window for Bundles opens.

To grant authorization to a new User, proceed as described in the Section Authorizing User Access to Objects.

Copying a Bundle Definition

▶ **To copy a bundle definition**

- On the Bundle Maintenance screen, enter CO in the two-character command line preceding the Bundle you want to copy and press Enter.

  The Copy Bundle Definition window opens.

▶ **To copy the Bundle**

- Type the name of the target Bundle in the input field provided, specify **Y** (yes) or **N** (no) to copy authorizations and press Enter.

  A message confirms:

```
Bundle copied successfully
```

Deleting a Bundle Definition

▶ **To delete a bundle definition**

- On the Bundle Maintenance screen, enter DE in the two-character command line preceding the Bundle definition you want to delete and press Enter.

  If CONFIRM is set to ON, a window opens which asks you to confirm deletion by typing the name of the Bundle definition again.

- Type the Bundle name in the input field provided and press Enter. A message confirms:

```
Object deleted
```

Displaying a Bundle Definition

▶ **To display a bundle definition**

- On the Bundle Maintenance screen, enter DI in the two-character command line preceding the Bundle you want to display and press Enter.

  The Bundle Definition screen appears for the Bundle you selected.

  In display mode you can only view the object parameters. You cannot enter or modify data because all fields are protected.

Displaying Log Information for a Bundle Definition

▶ **To display log information for a bundle definition**

- On the Bundle Maintenance screen, enter LO in the two-character command line preceding the Bundle definition for which you want to log information and press Enter.

  The Log Display screen appears for the Bundle definition selected.

- You can display more information about a log entry by entering the IN line command in the two-character command line preceding the entry and pressing Enter.

For further details, see the subsection Displaying Log Information for an Object and the Log Display screen.

Renaming a Bundle Definition

- On the Bundle Maintenance screen, enter RN in the two-character command line preceding the Bundle definition you want to rename and press Enter.

  The Rename Bundle window opens.

▶ **To rename the Bundle definition**

- Type the new Bundle name in the input field provided and press Enter.